

Title (en)

Sheet discriminator, sheet discriminating method and sheet discriminating threshold value deciding method

Title (de)

Prüfgerät für Blattgut, Verfahren zum Aussortieren von Blattgut sowie Verfahren zur Entscheidung zum Aussortieren von Blattgut aufgrund eines Schwellwertes

Title (fr)

Sélecteur de feuilles, procédé pour sélectionner des feuilles, et procédé pour décider de sélectionner des feuilles utilisant un seuil

Publication

EP 1498854 A1 20050119 (EN)

Application

EP 04014193 A 20040617

Priority

- JP 2003195188 A 20030710
- JP 2003394585 A 20031125

Abstract (en)

A sheet discriminator includes a pair of conveyor belts arranged with a specified space between them in parallel with the conveying direction in the direction orthogonal to the sheet conveying direction and put over pulleys to curve so as to hold and convey a sheet along the conveying path; a pair of reference rollers arranged between a pair of conveyor belts with a specified space in the direction orthogonal to the sheet conveying direction to hold a sheet being conveyed, and a pair of thrusting rollers arranged in contact with a pair of reference roller with the conveying path between them and thrust a sheet against the reference rollers. Further, a sheet discriminator includes a sensor roller provided between a pair of reference rollers projecting from the sheet conveying surface and moving in the direction orthogonal to the sheet conveying surface when a sheet is held and conveyed by a pair of conveyor belts, and a position sensor to detect the moving position of the sensor roller or the sheet surface position when a sheet passes the sensor roller. <IMAGE> <IMAGE> <IMAGE>

IPC 1-7

G07D 7/18

IPC 8 full level

G07D 7/16 (2006.01); **G07D 7/18** (2006.01); **G07D 7/182** (2016.01)

CPC (source: EP US)

G07D 7/183 (2017.04 - EP US); **G07D 7/185** (2013.01 - EP US); **G07D 7/187** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0357406 A2 19900307 - GLORY KOGYO KK [JP]
- [Y] FR 1580953 A 19690912
- [A] EP 0521625 A1 19930107 - NCR INT INC [US]
- [A] SCHRUEFER, E: "Signalverarbeitung: Numerische Verarbeitung digitaler Signale", 1990, CARL HANSA VERLAG, MÜNCHEN WIEN, XP002223960
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 15 6 April 2001 (2001-04-06)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1498854 A1 20050119; CN 1576818 A 20050209; US 2005006285 A1 20050113

DOCDB simple family (application)

EP 04014193 A 20040617; CN 200410063536 A 20040709; US 86897804 A 20040617